

Module Main.cpp

Main.cpp\_1(2)

/\* This is the System mainline. A  
configuration file is read and if  
successful, services are started. \*/

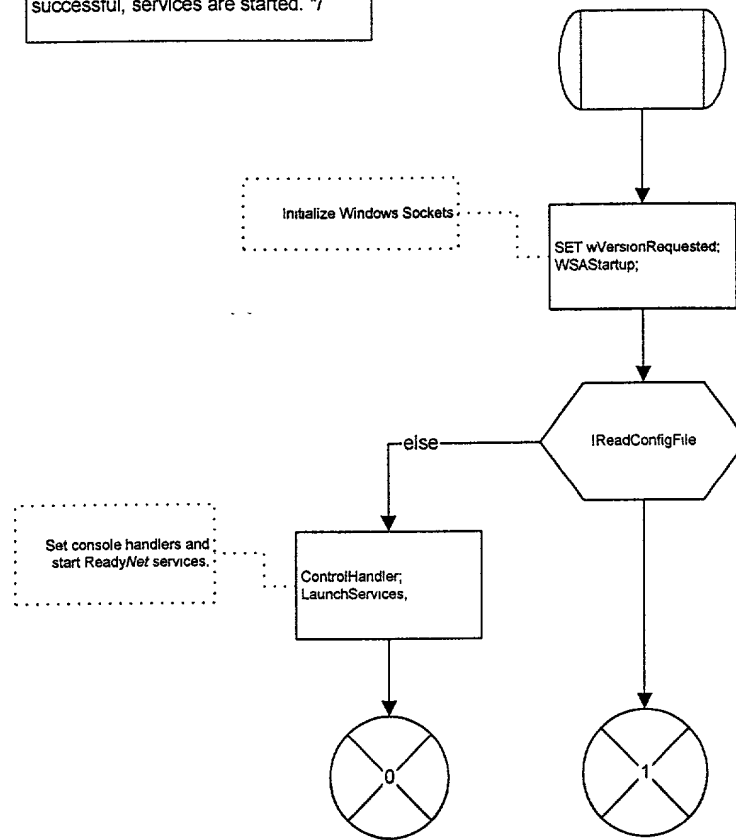


Figure 1

Module Handlers.cpp

handlers cpp\_1(10)

FUNCTION  
getDestIp

/\* Retreves the destination address  
from the client table using source IP  
and port number \*/

src\_ip  
src\_port

GET entry from client  
table;  
GET connection info from  
table entry;

Based on source IP  
address and port number,  
retrieve the destination IP  
address from the client  
connection table.

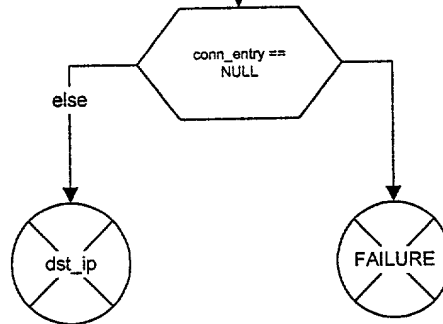


Figure 2

FUNCTION  
connectToHost

/\* Uses Windows sockets to  
connect to a particular IP address  
and port \*/

ip  
port

sock = w\_socket

sock ==  
INVALID\_  
SOCKET

FAILURE

rc=w\_connect

rc ==  
SOCKET\_ERROR

else

sock

FAILURE

Figure 3

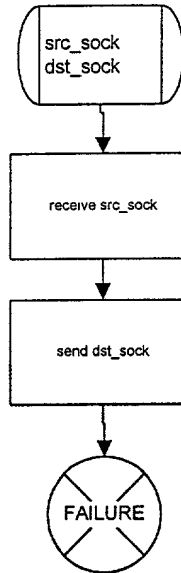
Module Handlers.cpp

handlers.cpp\_2(10)

FUNCTION  
 proxyMessage

/\* Read data packet from the source  
 socket and direct it to the destination  
 socket \*/

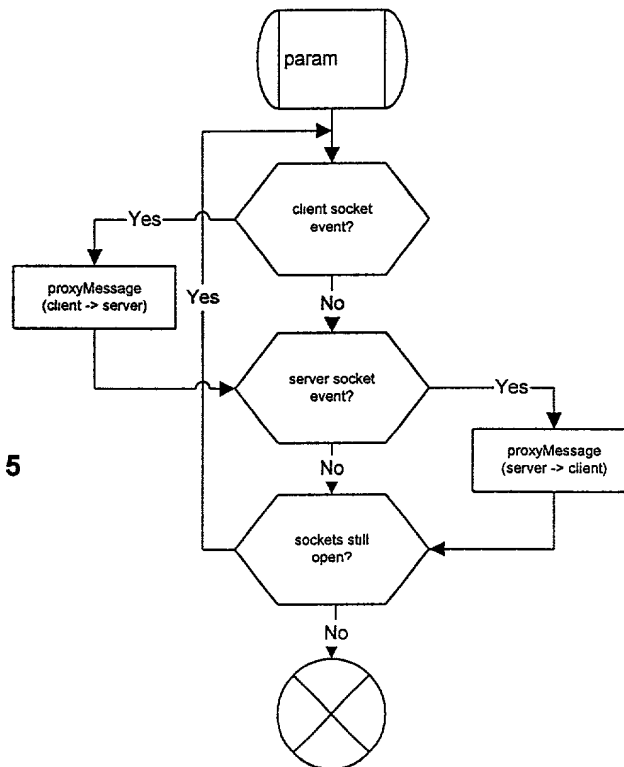
Figure 4



FUNCTION  
 dataHandler

/\* Checks for network traffic on  
 the client-side and server-side  
 and passes these messages to  
 the call proxyMessage \*/

Figure 5



Module Handlers.cpp

handlers.cpp\_3(10)

FUNCTION  
proxyMessages

/\* Listens for activity on the  
appropriate socket and  
determines the direction of  
the data, calling  
proxyMessage \*/

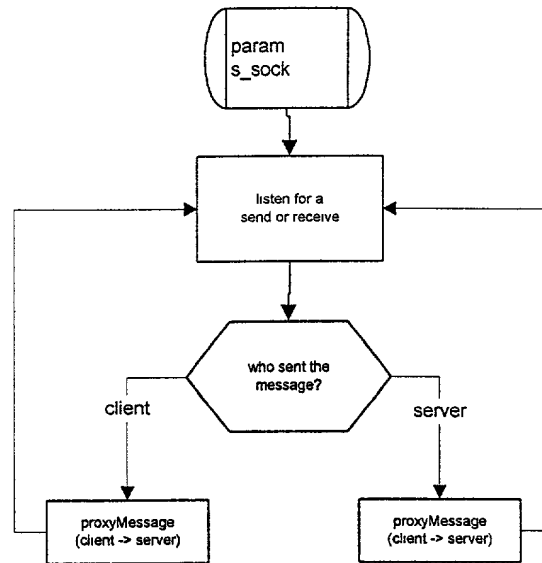


Figure 6

FUNCTION  
genericTCPProxy

/\* Initialize a socket on the given  
client and server ports and begin  
a new thread (handler function) to  
handle activity on that socket \*/

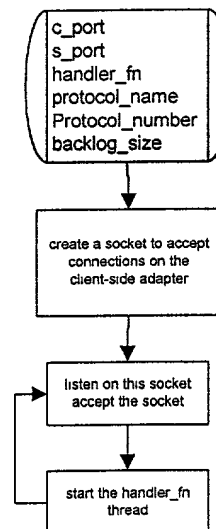


Figure 7

Module arpspoof.cpp

arpspoof.cpp\_1(5)

FUNCTION  
RnetArpSpoofer

/\* Handles any ARP requests by  
waiting for an ARP packet,  
responding with the System  
client-side IP address, and  
inserting the client into the  
routeTable \*/

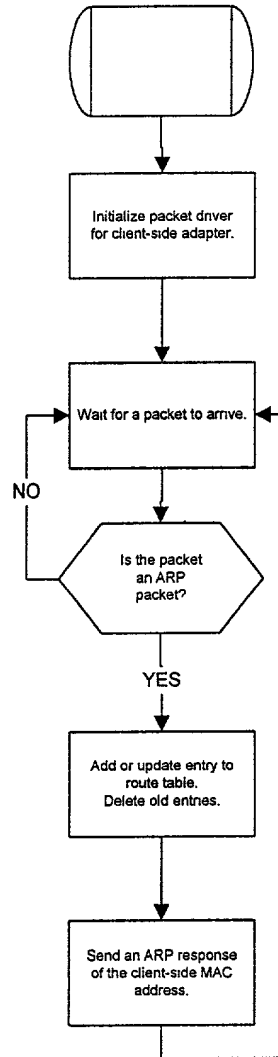


Figure 8

Module dnsproxy.cpp

dnsproxy.cpp\_1(9)

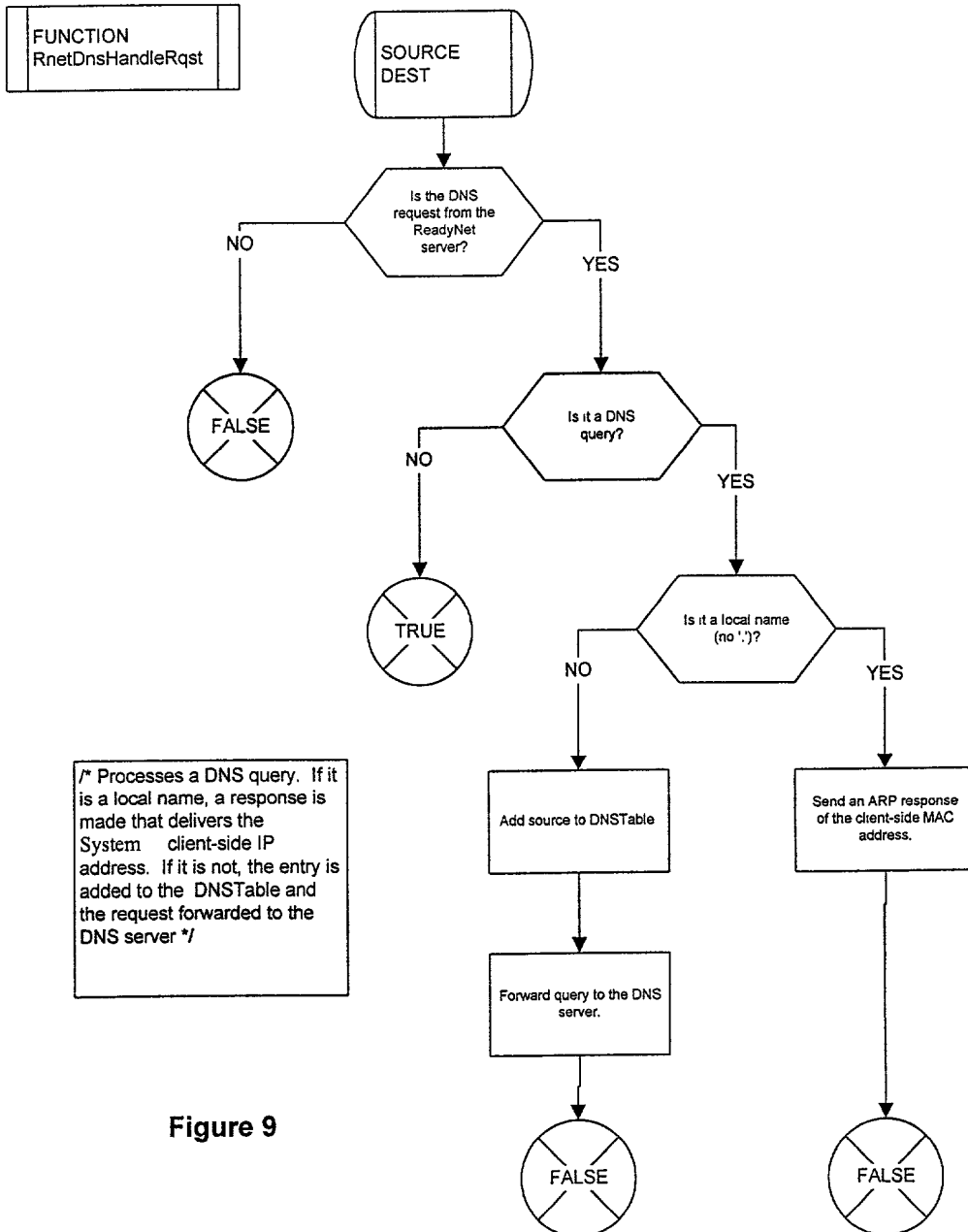
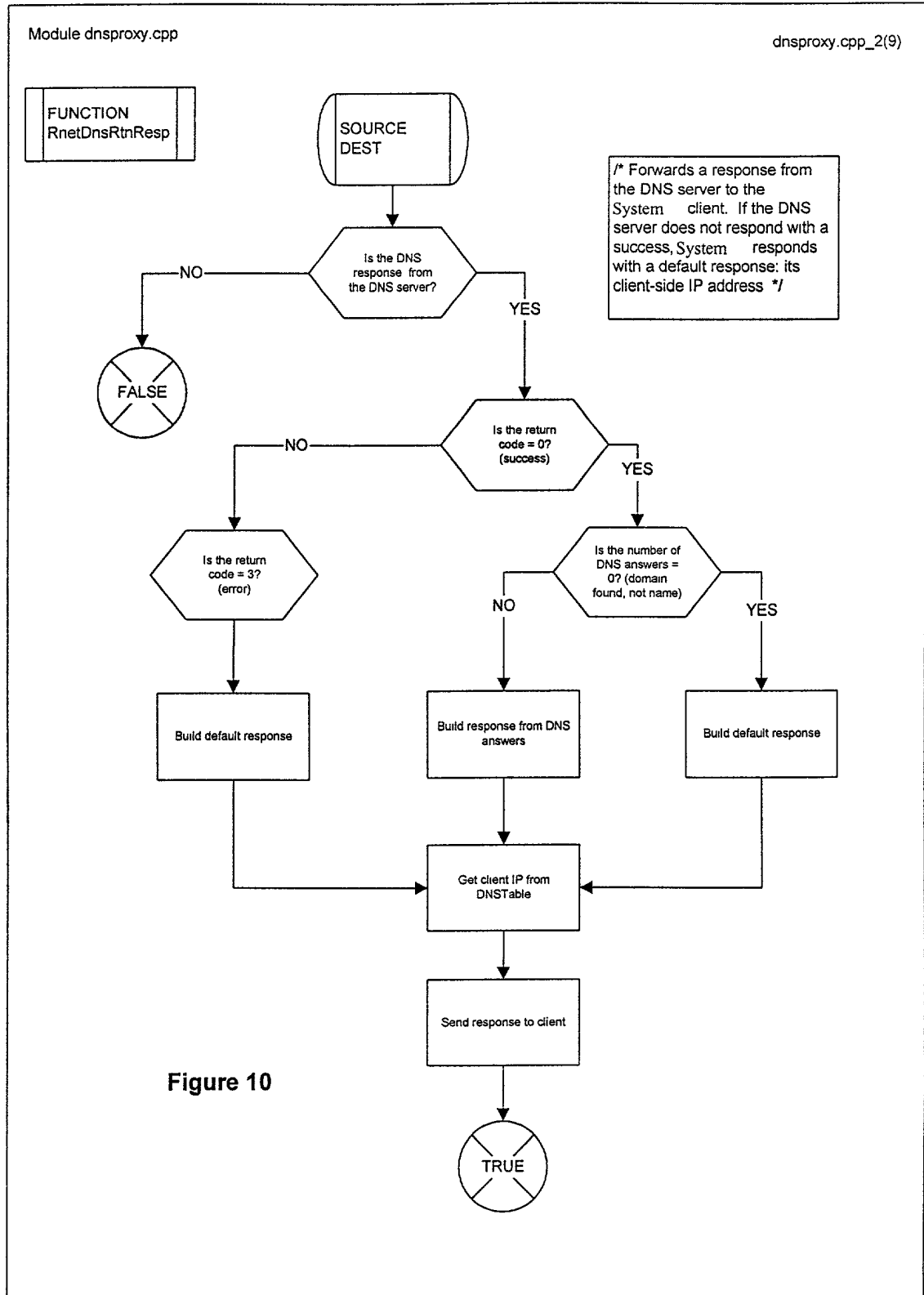


Figure 9

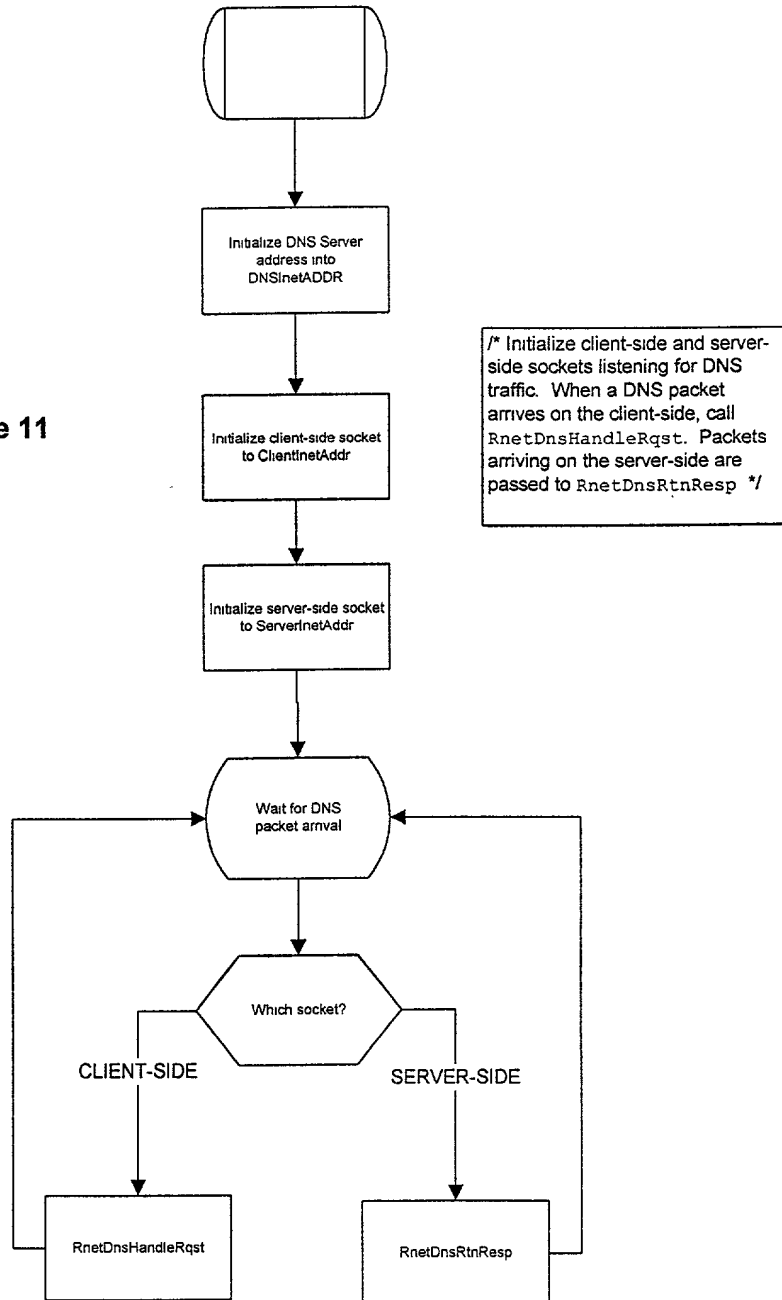


Module dnsproxy.cpp

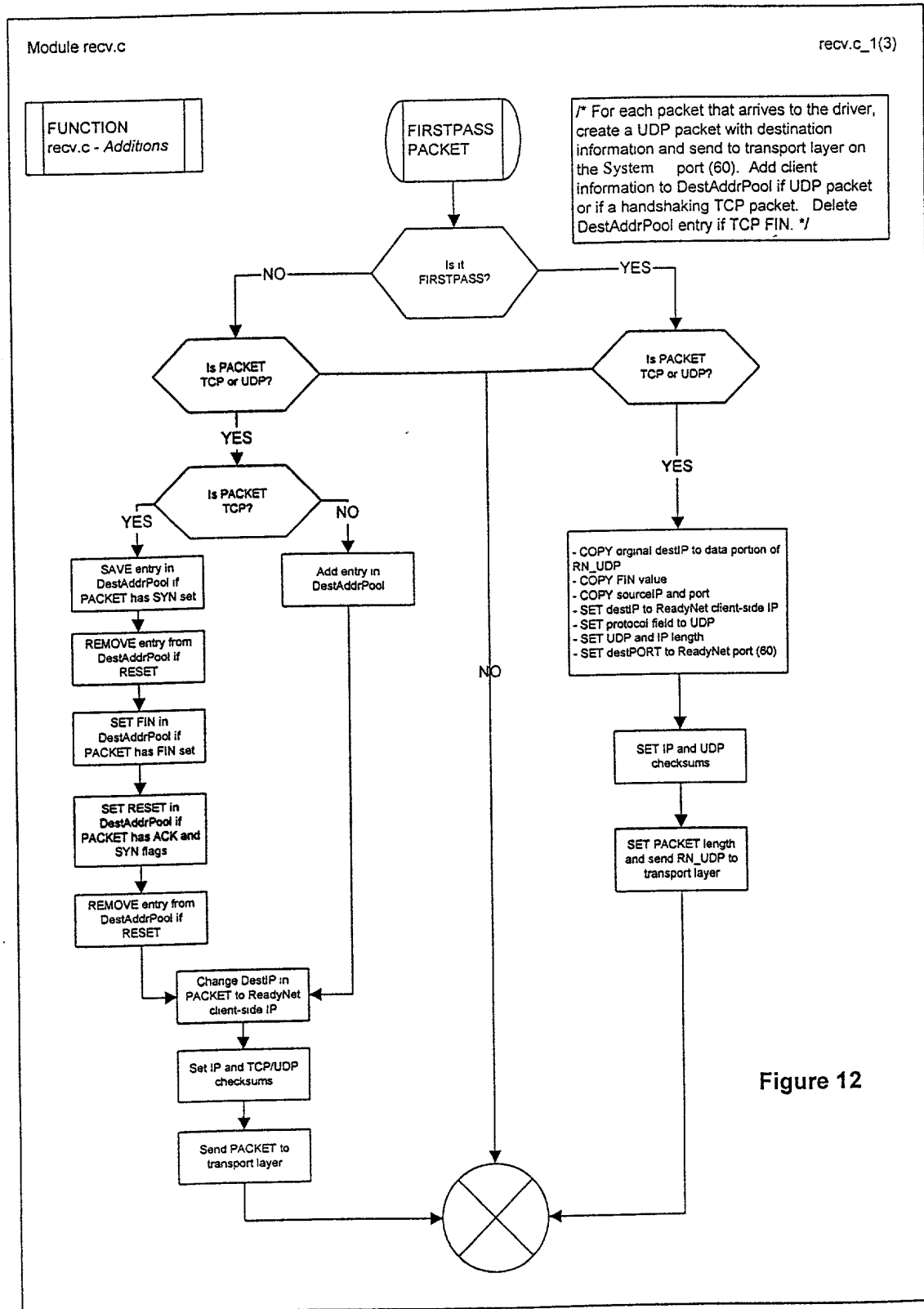
dnsproxy.cpp\_3(9)

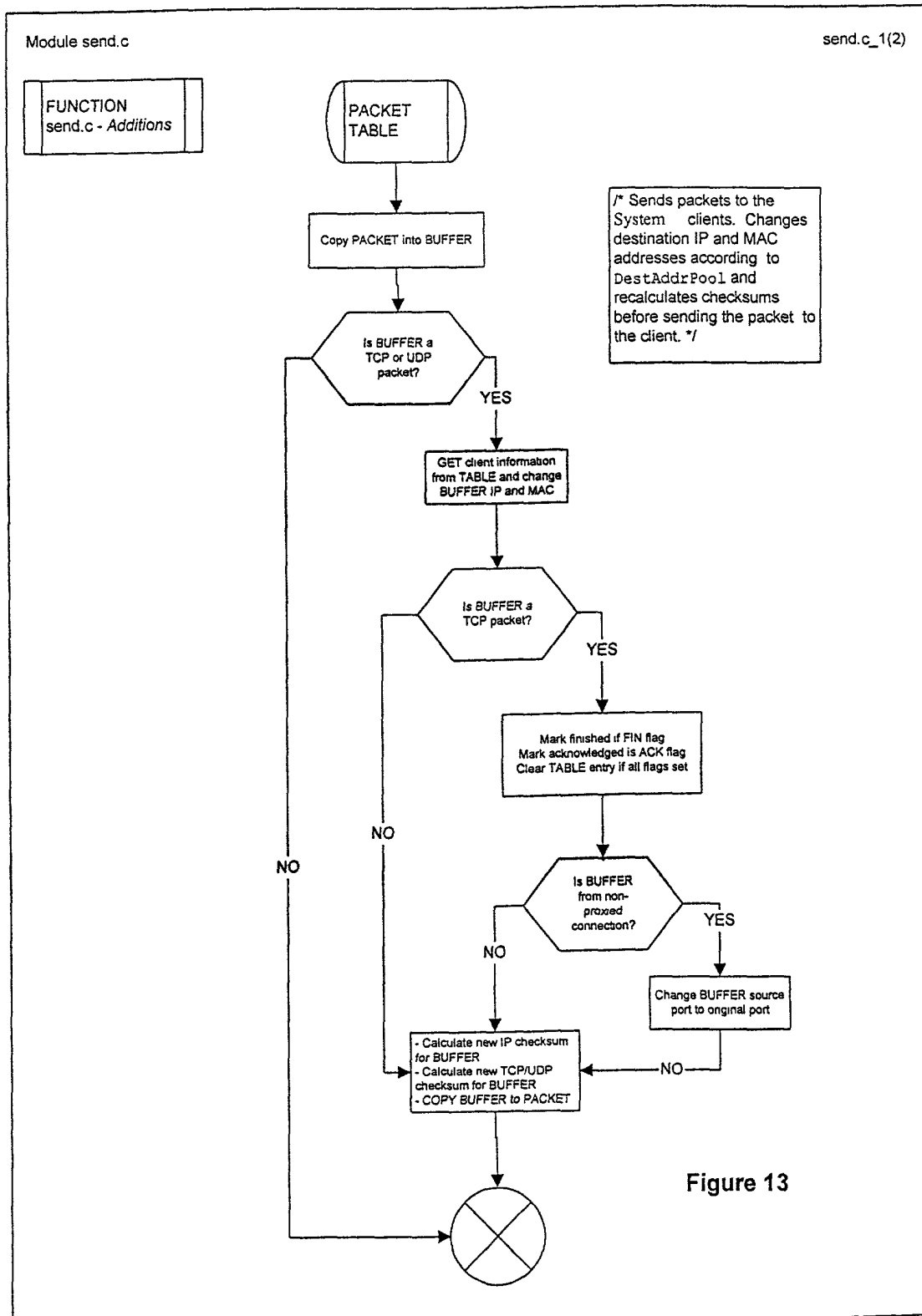
FUNCTION  
RnetDnsProxy

Figure 11









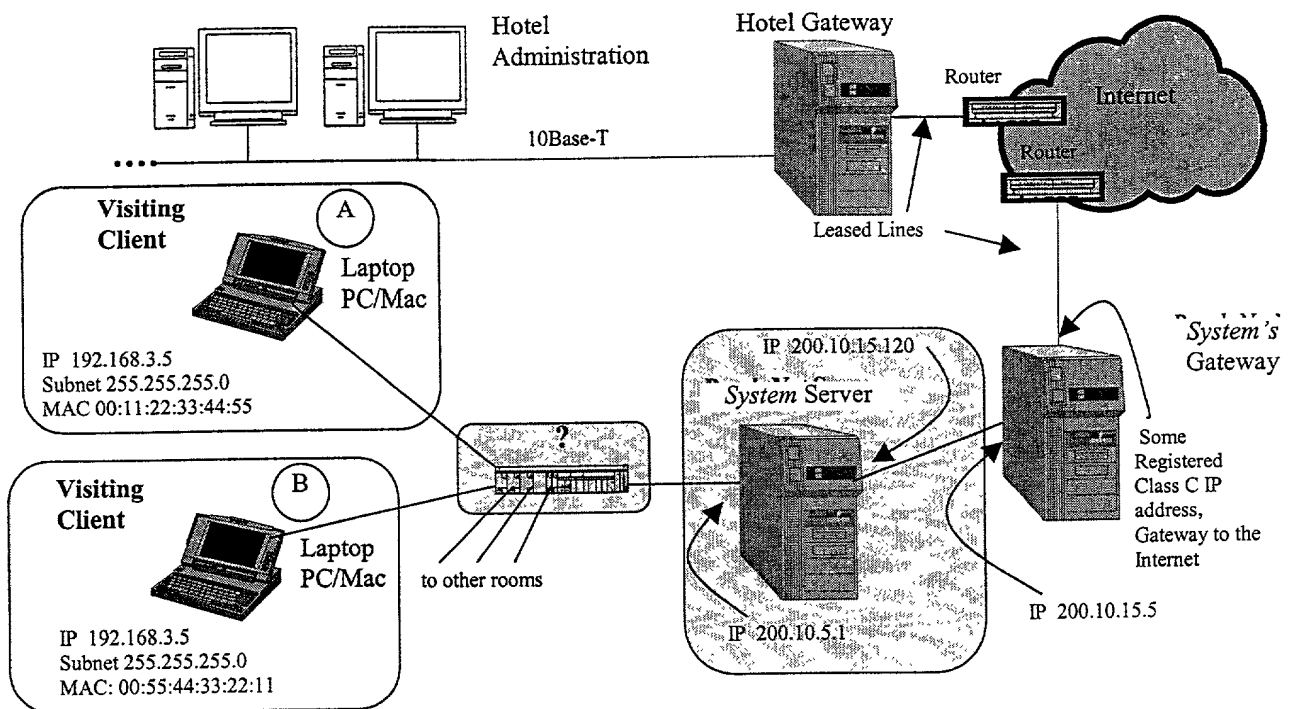


Figure 14

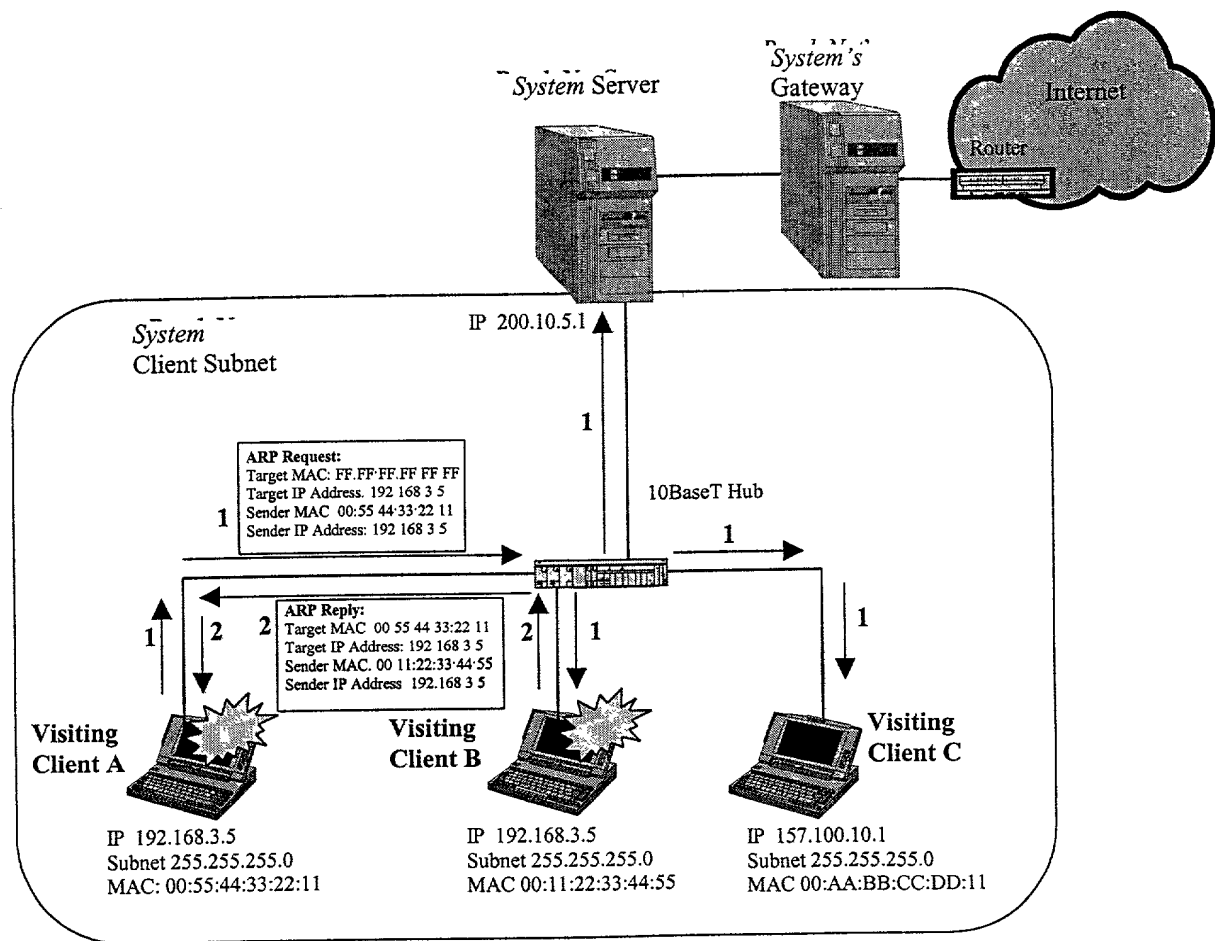


Figure 15

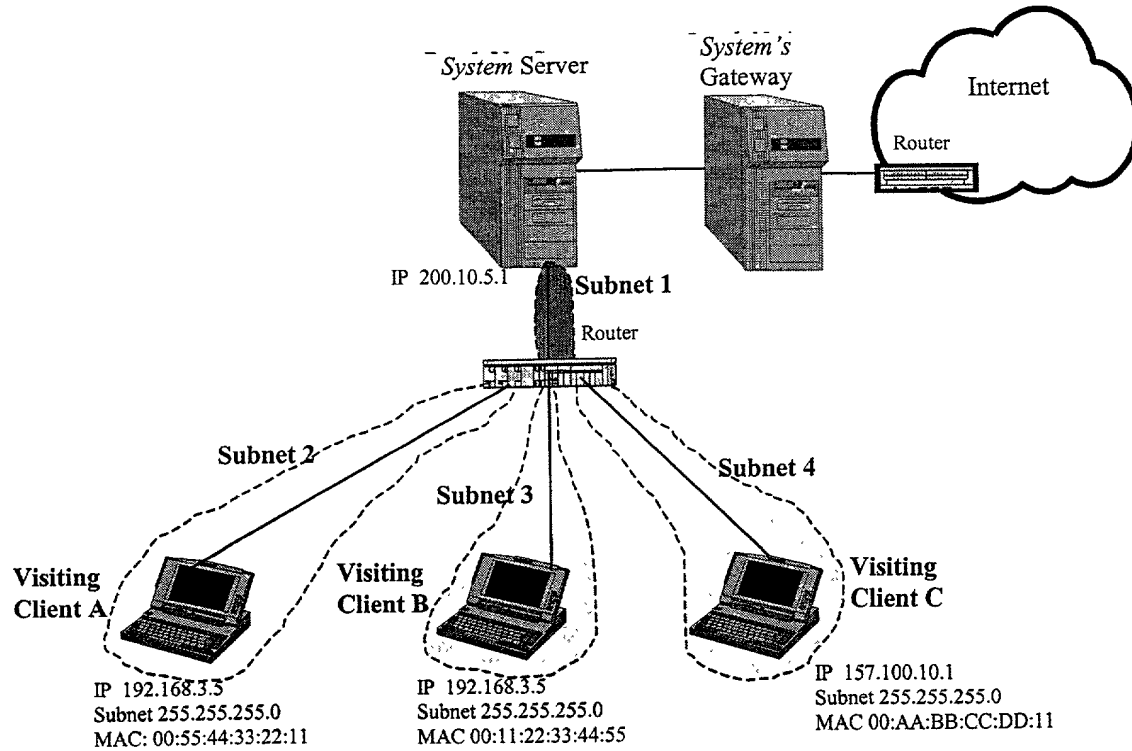


Figure 16

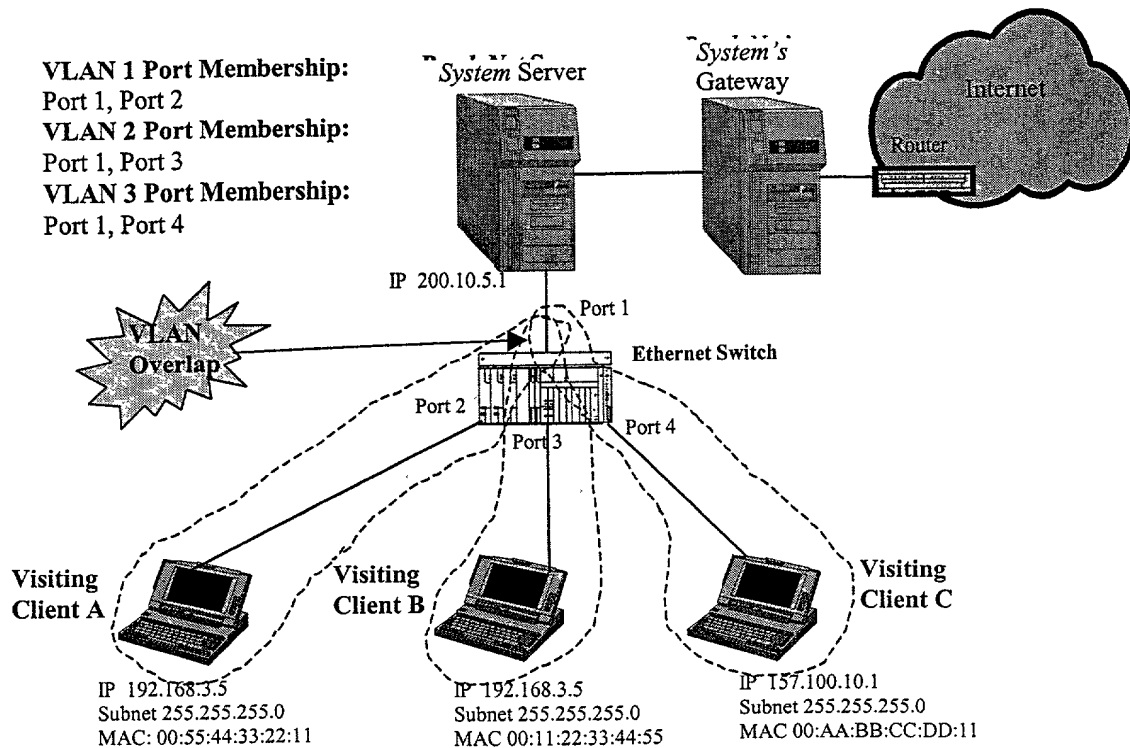


Figure 17

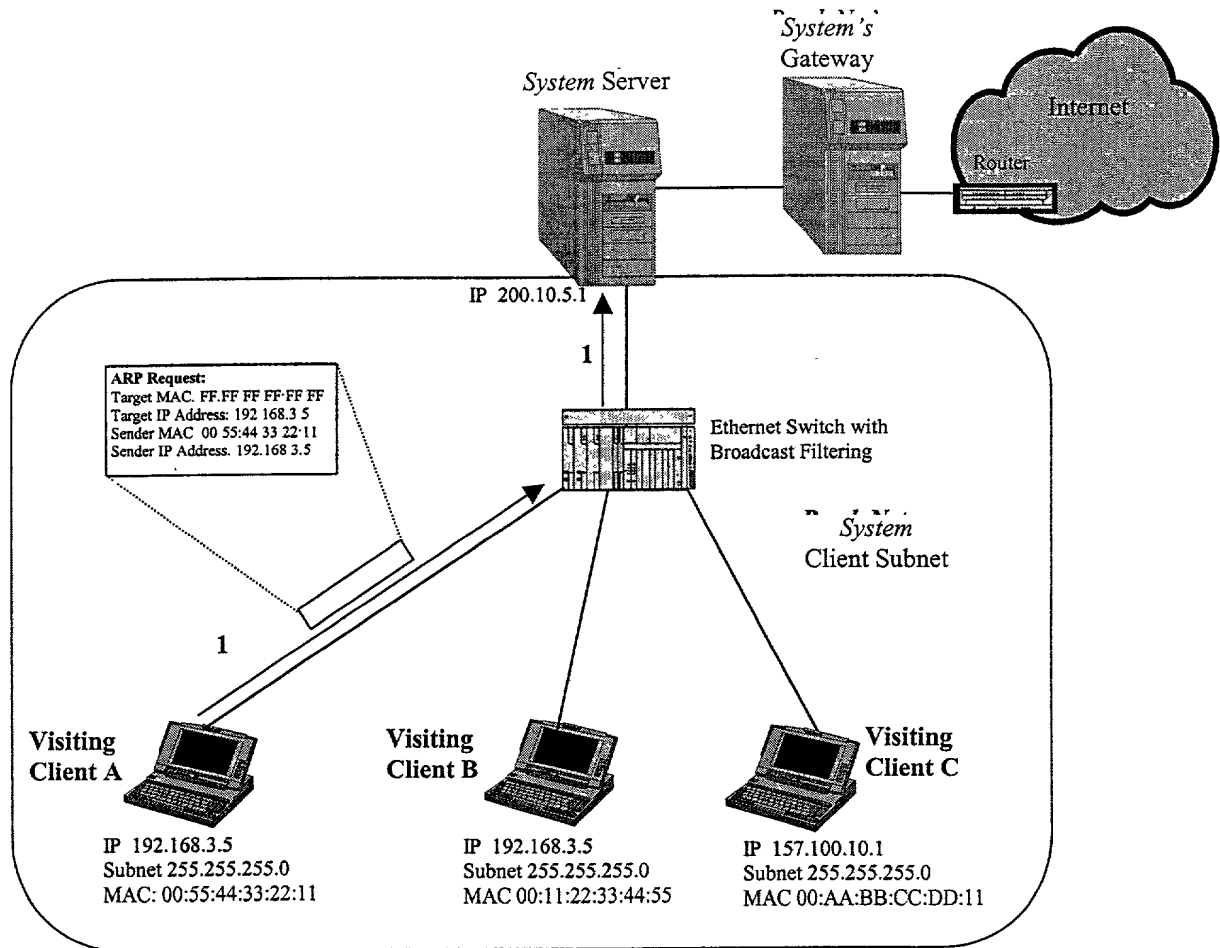


Figure 18

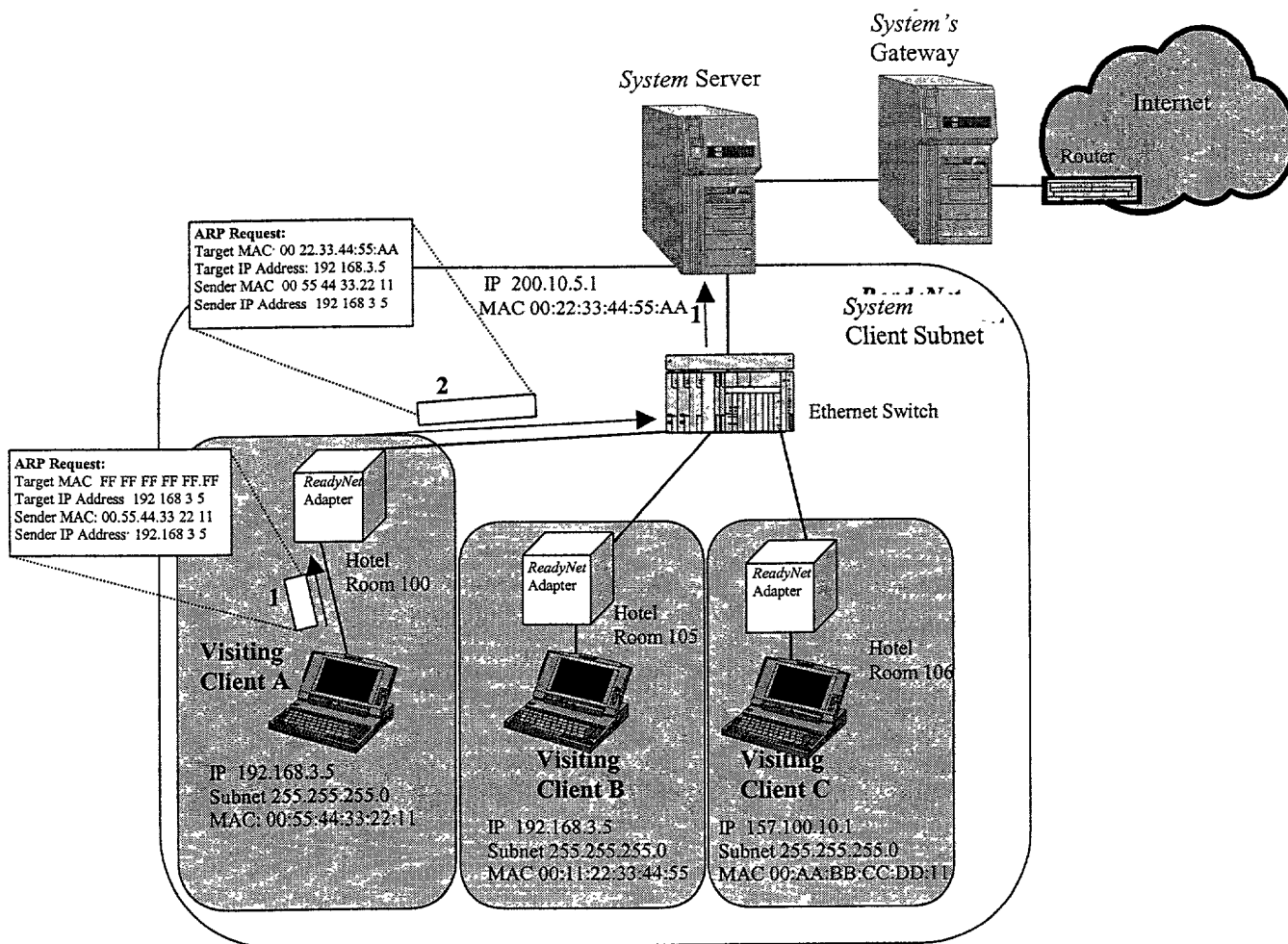


Figure 19

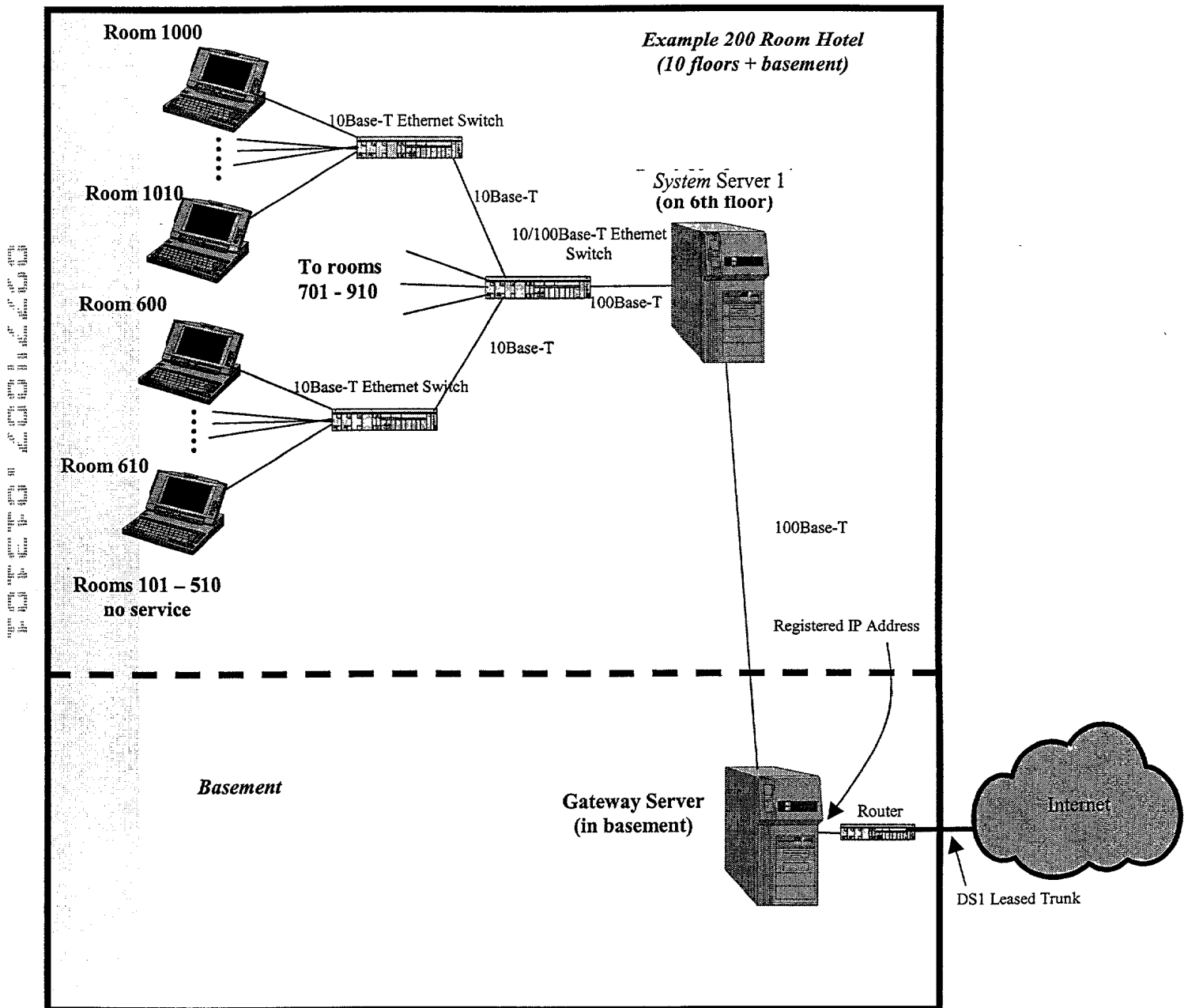


Figure 20



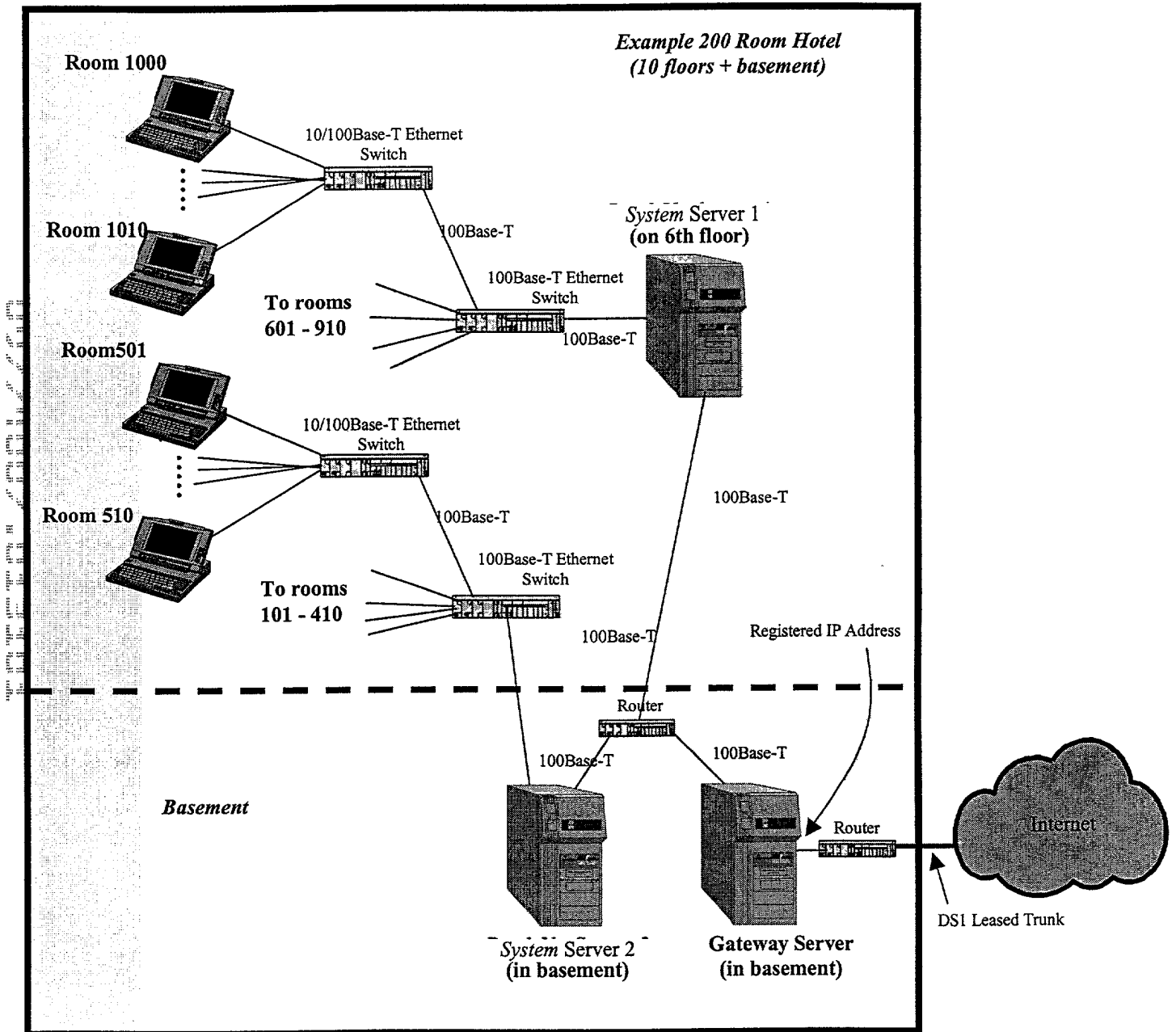


Figure 21

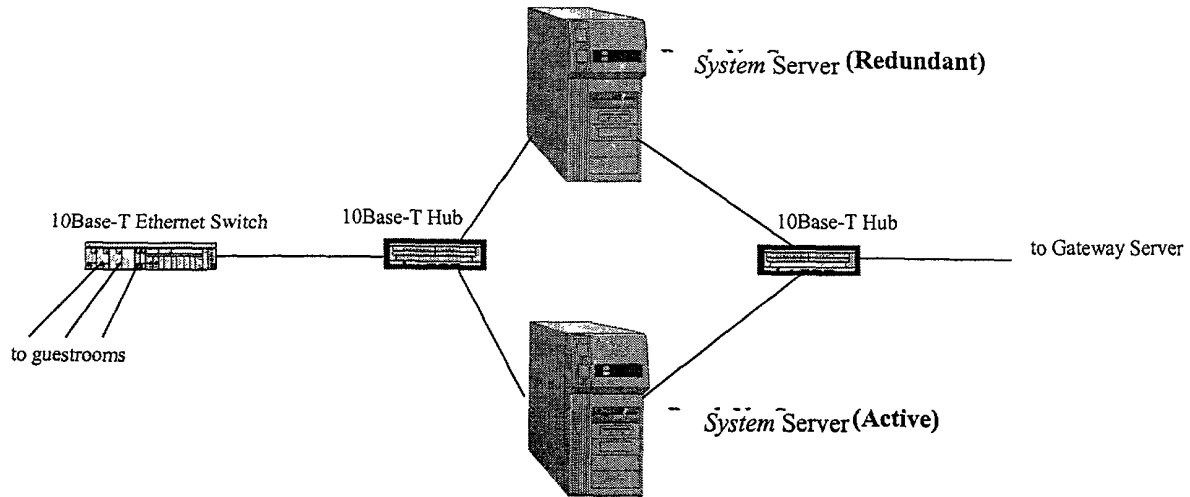


Figure 22

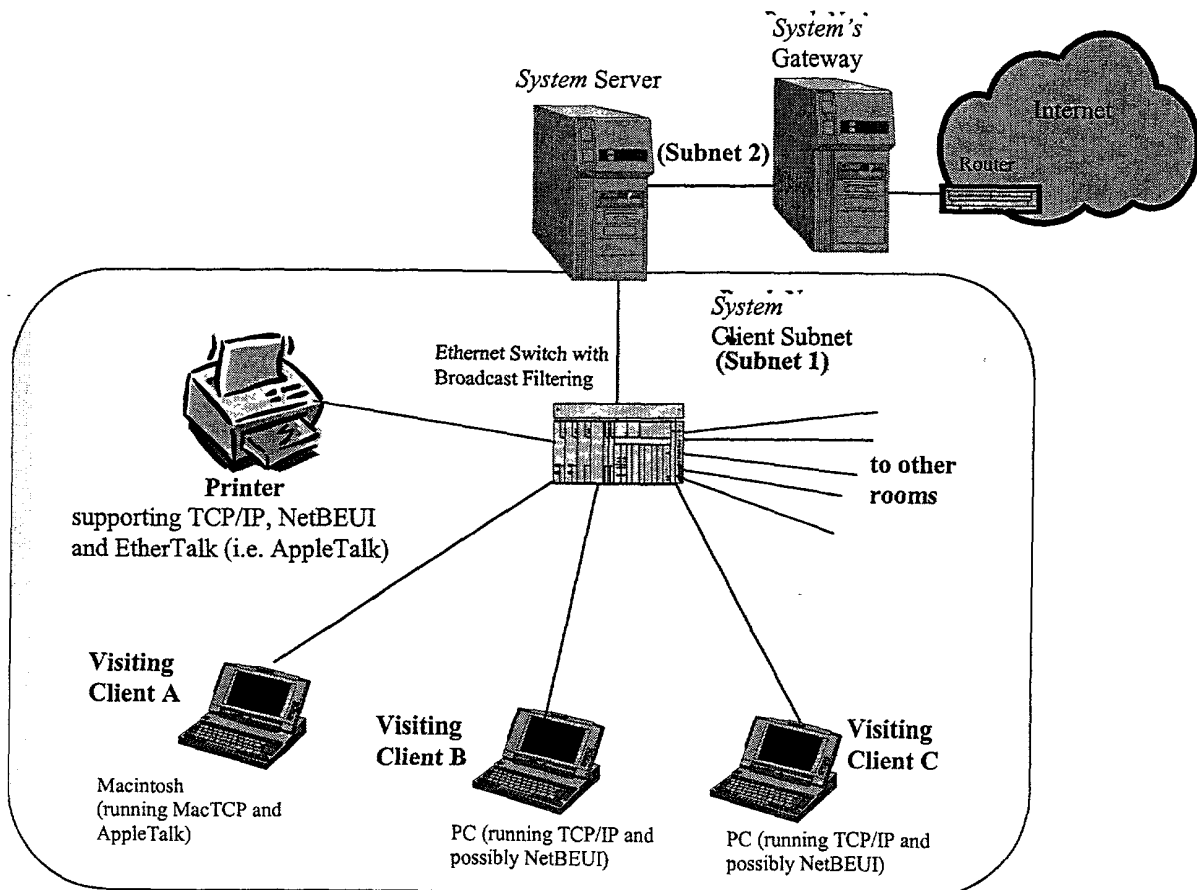


Figure 23

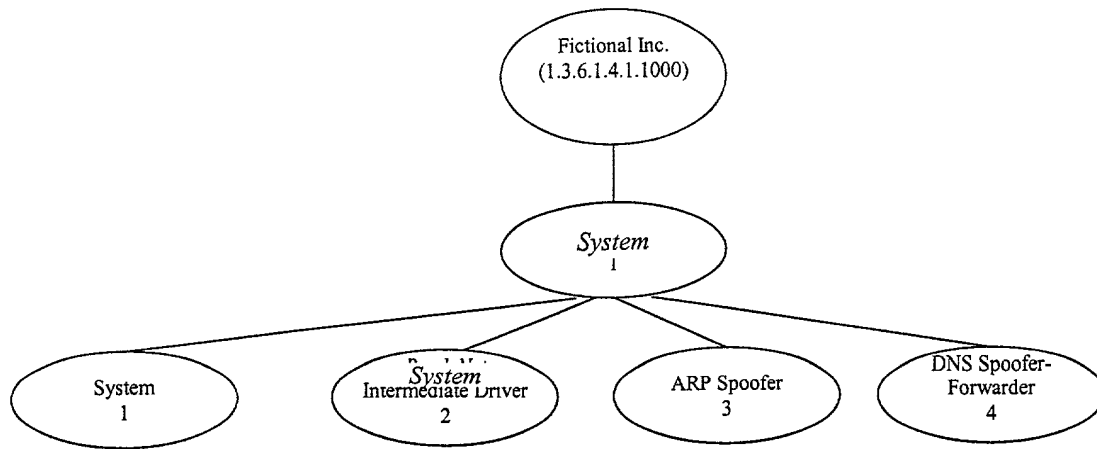


Figure 24

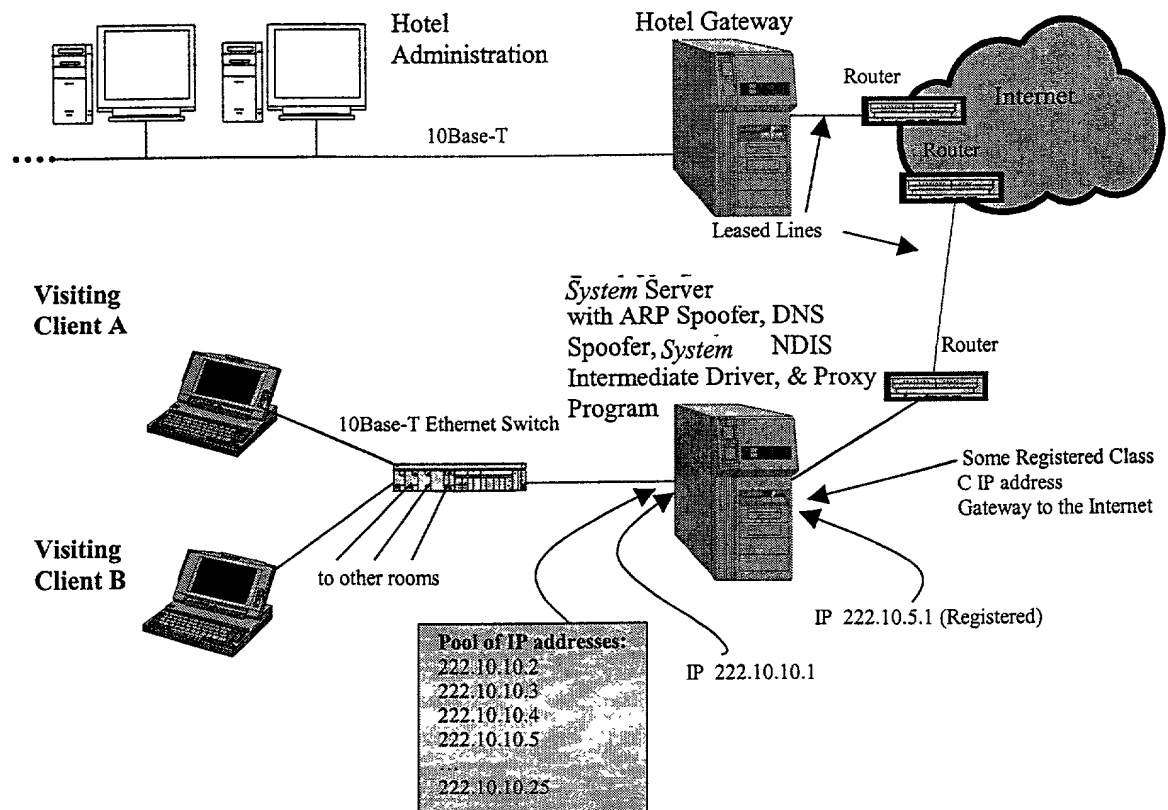


Figure 25

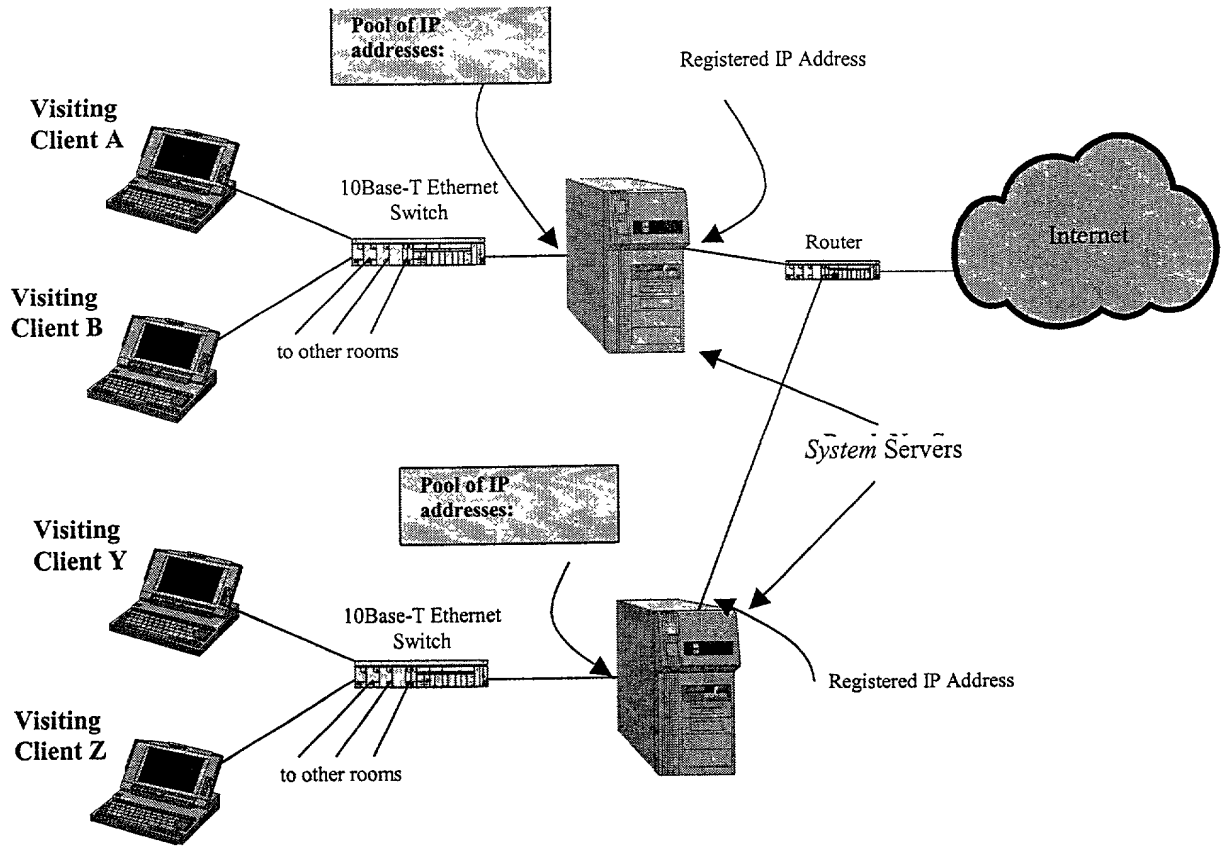


Figure 26

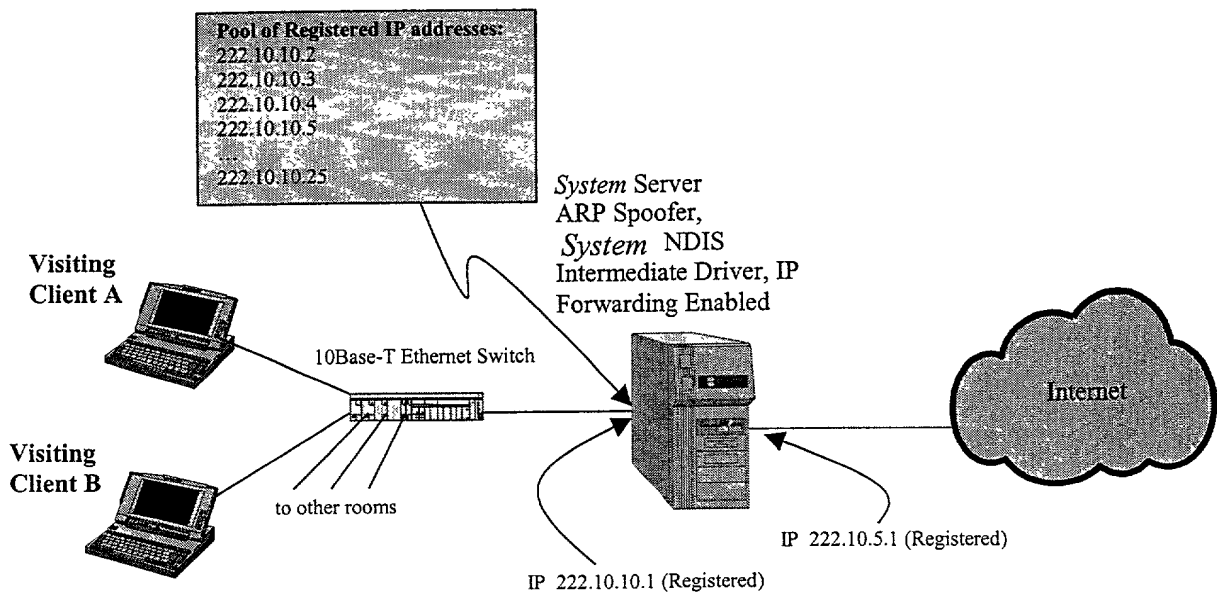


Figure 27

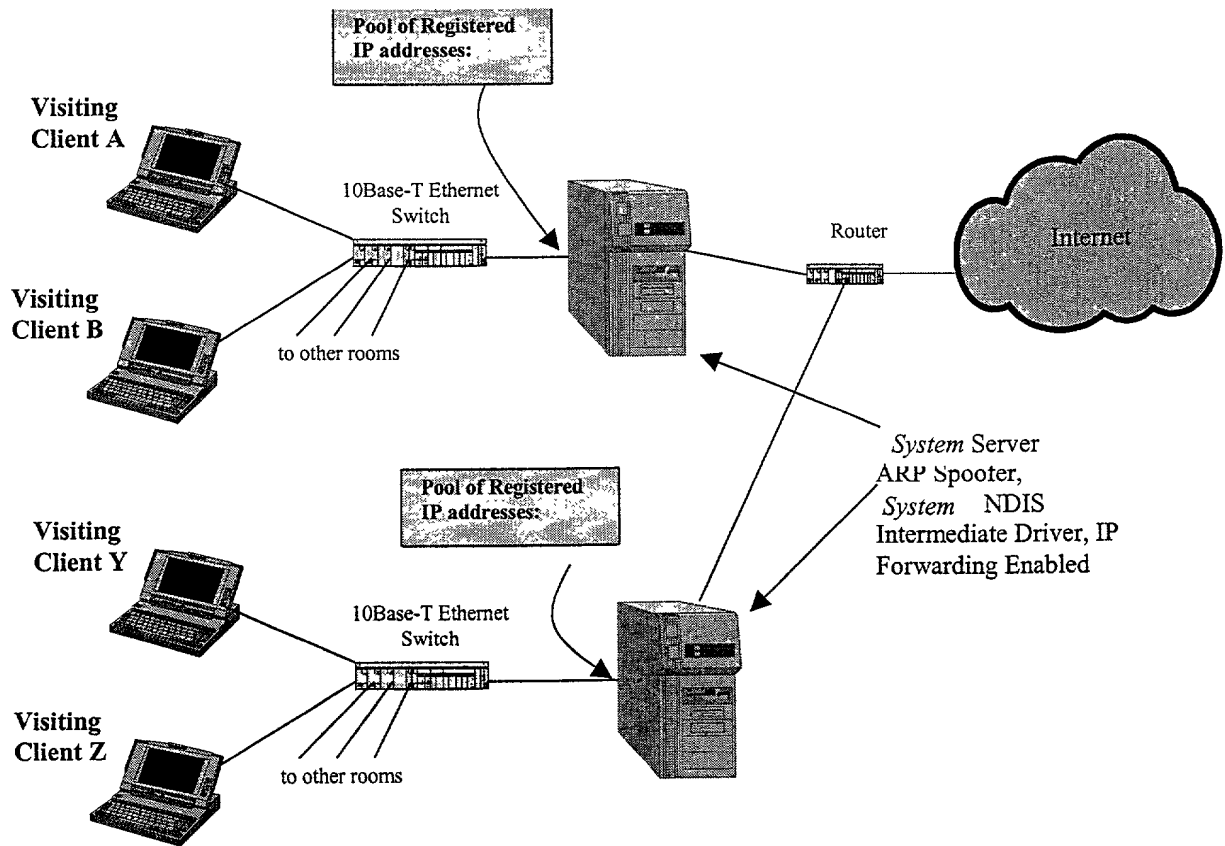


Figure 28

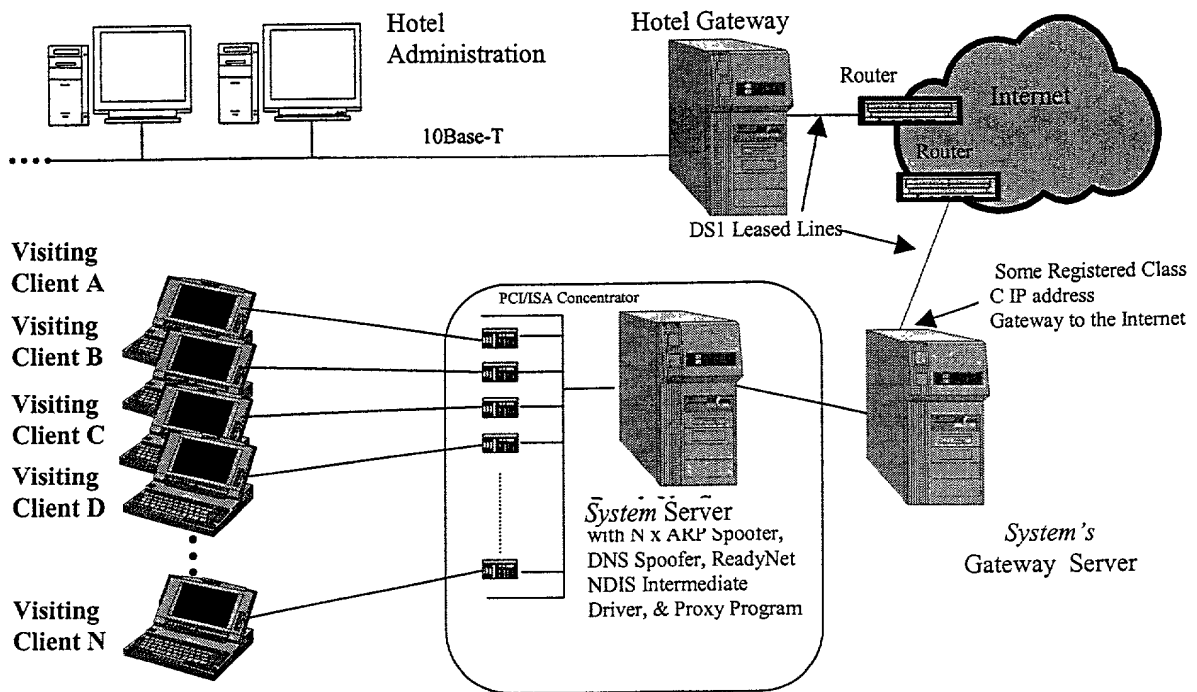


Figure 29

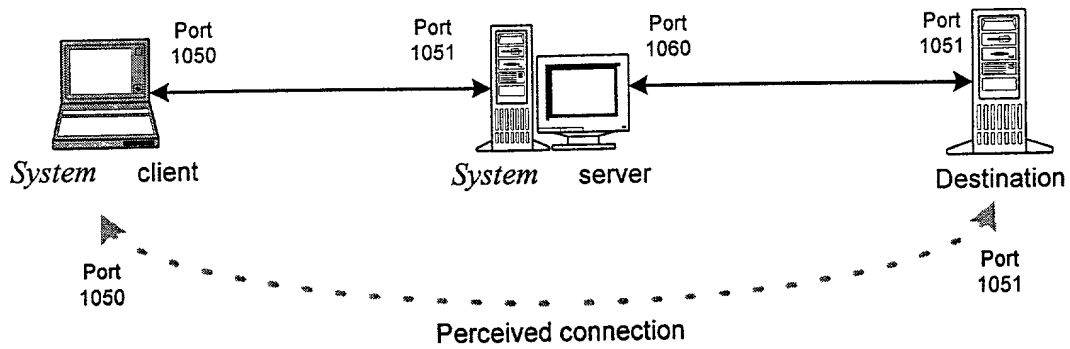


Figure 30

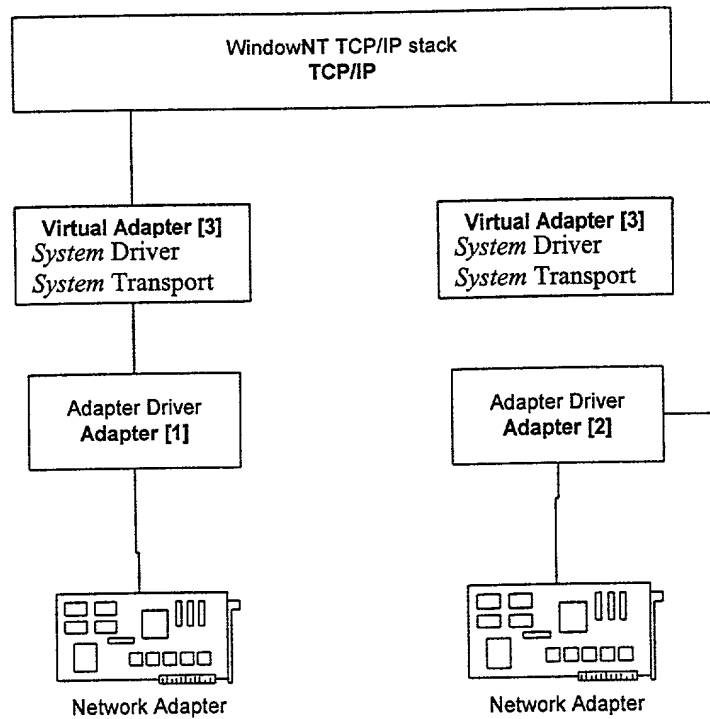


Figure 31